

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (currently amended) A device for vapor deposition ~~device for vapor deposition~~ of vertically aligned regions of a substrate, ~~in which an upright melting crucible,~~ comprising:

a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible, ~~is positioned and which has a deflecting vapor flowing vertically out of the melting crucible horizontally toward the substrate,~~

~~characterized in that the deflection device is a nozzle pipe, placed from above on the melting crucible and sealable on top, which has a horizontal vapor outlet in its lateral surface, and the nozzle pipe has a heater which is independent of the heater of the melting crucible;~~ and

a nozzle pipe for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:

a top that is sealable;

a lateral surface;

a horizontal vapor outlet in its lateral surface;

a pipe heater which is independent of the crucible heater;

wherein the nozzle pipe is placed from above the melting crucible.

2. (currently amended) The vapor deposition device of Claim 1, ~~characterized in that~~ further comprising a temperature sensor is provided in each case in the region of the melting crucible and a temperature sensor in the region of the nozzle pipe for regulating the output of the heaters of the melting crucible and the nozzle pipe crucible heater and the pipe heater, respectively.

3. (currently amended) The vapor deposition device of Claim 1, ~~characterized in that~~ wherein the nozzle pipe engages in the melting crucible with a diameter taper on its lower end.

4. (currently amended) The vapor deposition device ~~according to~~ of Claim 1, ~~characterized in that~~ wherein the nozzle pipe has further comprises:

a taper shaped like a truncated cone on its upper end[.];

~~having~~ a coaxial filling opening[.]; and

a plunger, ~~whose height is adjustable, may be introduced into this filling opening from above,~~ having an adjustable height for selective engagement with the coaxial filling opening from above.

5. (currently amended) The vapor deposition device ~~according to~~ of Claim 1, ~~characterized in that~~ wherein the nozzle pipe is enclosed concentrically by multiple reflectors, ~~which have~~ the reflectors comprise a vapor passage window in the region of the vapor outlet.

6. (currently amended) The vapor deposition device ~~according to Claim 1 of Claim 5,~~ of Claim 5, ~~characterized in that~~ wherein the reflectors are externally enclosed by a vaporizer housing, ~~which has cooling pipes on the~~ having an outside, the vaporizer housing comprising cooling pipes on the outside and an exhaust opening in the region of the vapor passage window and the vapor outlet.

7. (currently amended) The vapor deposition device ~~according to~~ of Claim 6, ~~characterized in that~~ wherein the cooling pipes are aligned in a meander shape in the region of the nozzle pipe and have long pipe sections running in ~~the~~ a lengthwise direction along the vaporization device, ~~which the cooling pipes~~ are alternately connected to one another above and below by a short pipe section in each case.

8. (currently amended) The vapor deposition device ~~according to~~ of Claim 6, ~~characterized in that~~ wherein the cooling pipes lead in a spiral shape around the vaporizer housing in the region of the melting crucible.

9. (currently amended) The vapor deposition device ~~according to~~ of Claim 1, ~~characterized in that~~ wherein the vapor outlet in the nozzle pipe is formed by multiple holes positioned over one another.

10. (currently amended) The vapor deposition device ~~according to~~ of Claim 1, ~~characterized in that~~ wherein the melting crucible and the nozzle pipe are made of graphite.

11. (new) A device for vapor deposition of vertically aligned regions of a substrate, comprising:

- a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible; and

- a nozzle pipe for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:

- a top that is sealable;

- a lateral surface;

- a horizontal vapor outlet in its lateral surface;

- a pipe heater which is independent of the crucible heater;

wherein the nozzle pipe is placed from above the melting crucible and is enclosed concentrically by multiple reflectors, the reflectors comprise a vapor passage window in the region of the vapor outlet.

12. (new) A device for vapor deposition of vertically aligned regions of a substrate, comprising:

- a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible; and

a nozzle pipe for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:

- a top that is sealable;

- a lateral surface;

- a horizontal vapor outlet in its lateral surface;

- a pipe heater which is independent of the crucible heater;

- a taper shaped like a truncated cone on its upper end;

- a coaxial filling opening; and

- a plunger having an adjustable height for selective engagement with the coaxial filling opening from above.

wherein the nozzle pipe is placed from above the melting crucible.